



## SEQUENCE LISTING

<110> Goulmy, Elsa

<120> METHOD FOR TYPING OF MINOR HISTOCOMPATIBILITY ANTIGEN HA-1

<130> 58994

<140> 09/269,250

<141> 1999-05-21

<160> 38

<170> PatentIn version 3.1

<210> 1

<211> 377

<212> DNA

<213> Human

<400> 1

gtgagagcca cggggacacc gaggcctggg tggaagacag agccagaccc aagggaggat  
60

ggagggaggg acttggggag gtcagaagg gagggaggct cagatggcag ggagggctgt  
120

gtggaagagg ccatgacagc taaggctctg agggatgtgt aggagtttgg tgggggagtc  
180

cctgagcgta cactgggtca agagggtgcc cactttattt ttttaaagg atctgatggc  
240

aattaggagg gaaaggcaga ggaaatgtcc catgcacagg ctcagaaaca cggaaacaga  
300

gaatgcattt gggggccaag gtgtggggtg ccgctgggtg aggatgaagg catgacaacg  
360

ccaggcagaa gggcaat  
377

<210> 2  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 2  
gtgctgcctc ctggacactg  
20

<210> 3  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 3  
tggctctcac cgtcacgcag  
20

<210> 4  
<211> 20  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Primer

<400> 4  
tggctctcac cgtcacgcaa  
20

<210> 5  
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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 5

gcattctctg tttccgtgtt  
20

<210> 6

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 6

cttaaggagt gtgtgctgca  
20

<210> 7

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 7

cttaaggagt gtgtgttgcg  
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<210> 8

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 8  
gctgtcatgg cctcttccac  
20

<210> 9  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 9  
gcattctctg tttccgtgtt  
20

<210> 10  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 10  
ggcagagagc cctcgcagcc  
20

<210> 11  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 11  
gtgtgttgcg tgacggtg  
18

<210> 12  
<211> 15  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 12  
gtgtgttgcg tgacg  
15

<210> 13  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<400> 13  
tgtgtgttgc gtgacg  
16

<210> 14  
<211> 19  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Primer

<400> 14  
tgtgtgctgc atgacggtg  
19

<210> 15  
<211> 18  
<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer

<400> 15

tgtgtgctgc atgacggt  
18

<210> 16

<211> 18

<212> DNA

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<223> Description of Artificial Sequence: Primer

<400> 16

gtgtgctgca tgacggtg  
18

<210> 17

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Exon Fragments

<220>

<221> CDS

<222> (1)..(27)

<223>

<400> 17

gtg ttg cgt gac gac ctc ctt gag gcc  
27

Val Leu Arg Asp Asp Leu Leu Glu Ala

1

5

<210> 18  
<211> 9  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Exon Fragments

<400> 18

Val Leu Arg Asp Asp Leu Leu Glu Ala  
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<210> 19  
<211> 27  
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<220>  
<223> Description of Artificial Sequence: Exon Fragments

<220>  
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<223>

<400> 19  
gtg ctg cat gac gac ctc ctt gag gcc  
27  
Val Leu His Asp Asp Leu Leu Glu Ala  
1 5

<210> 20  
<211> 9  
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Exon Fragments

<400> 20

Val Leu His Asp Asp Leu Leu Glu Ala

1

5

<210> 21

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Exon Fragments

<400> 21

gtgttgcggtg acggtgagag cca

23

<210> 22

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Exon Fragments

<400> 22

ctcactccga ctctccccag cagacctcct tgaggcc

37

<210> 23

<211> 33

<212> DNA

<213> Artificial Sequence

<220>



<223> Description of Artificial Sequence: Primer

<400> 23

ccggcatgga cgtcgtcgag gacatctccc atc  
33

<210> 24

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 24

ctacttcagg ccacagcaat cgtctccagg  
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<210> 25

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Product

<220>

<221> CDS

<222> (1)..(39)

<223>

<400> 25

gag tgt gtg ttg cgt gac gac ctc ctt gag gcc cgc cgc  
39

Glu Cys Val Leu Arg Asp Asp Leu Leu Glu Ala Arg Arg

1

5

10

<210> 26  
 <211> 13  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: PCR Product

<400> 26

Glu Cys Val Leu Arg Asp Asp Leu Leu Glu Ala Arg Arg  
 1 5 10

<210> 27  
 <211> 39  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: PCR Product

<220>  
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 <222> (1)..(39)  
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<400> 27  
 gag tgt gtg ctg cat gac gac ctc ctt gag gcc cgc cgc  
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 Glu Cys Val Leu His Asp Asp Leu Leu Glu Ala Arg Arg  
 1 5 10

<210> 28  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Product

<400> 28

Glu Cys Val Leu His Asp Asp Leu Leu Glu Ala Arg Arg  
1 5 10

<210> 29

<211> 9

<212> PRT

<213> Human

<220>

<221> MISC\_FEATURE

<222> (3)..(3)

<223> Xaa represents a histidine (H) or an arginine (R) residue

<400> 29

Val Leu Xaa Asp Asp Leu Leu Glu Ala  
1 5

<210> 30

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 30

gctcctgcat gacgctctgt ctgca  
25

<210> 31

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 31

gacgtcgtcg aggacatctc ccat  
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<210> 32

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 32

gaaggccaca gcaatcgtct ccagg  
25

<210> 33

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 33

ccttgagaaa cttaaggagt gtgtgctgca  
30

<210> 34

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 34

ccttgagaaa cttaaggagt gtgtgttgcg  
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<210> 35  
<211> 78  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: PCR Product

<220>  
<221> CDS  
<222> (1)..(78)  
<223>

<400> 35  
gag tgt gtg ttg cgt gac gac ctc ctt gag gcc cgc cgc gag tgt gtg  
48  
Glu Cys Val Leu Arg Asp Asp Leu Leu Glu Ala Arg Arg Glu Cys Val

1 5 10 15

ctg cat gac gac ctc ctt gag gcc cgc cgc  
78  
Leu His Asp Asp Leu Leu Glu Ala Arg Arg

20 25

<210> 36  
<211> 26  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: PCR Product

<400> 36

Glu Cys Val Leu Arg Asp Asp Leu Leu Glu Ala Arg Arg Glu Cys Val  
 1 5 10 15

Leu His Asp Asp Leu Leu Glu Ala Arg Arg  
 20 25

<210> 37  
 <211> 9  
 <212> PRT  
 <213> Human

<220>  
 <221> MISC\_FEATURE  
 <222> (2)..(2)  
 <223> Xaa represents Isoleucine or Leucine

<400> 37

Tyr Xaa Thr Asp Arg Val Met Thr Val  
 1 5

<210> 38  
 <211> 8  
 <212> PRT  
 <213> HUMAN

<400> 38

Val Leu His Asp Leu Leu Glu Ala  
 1 5